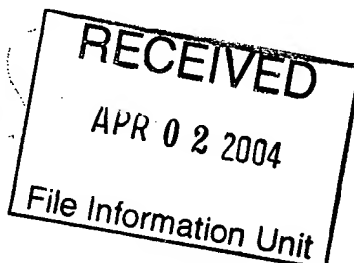


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US005541206A

United States Patent [19]**Kempf et al.**[11] **Patent Number:** **5,541,206**[45] **Date of Patent:** **Jul. 30, 1996**[54] **RETROVIRAL PROTEASE INHIBITING COMPOUNDS**[75] **Inventors:** Dale J. Kempf, Libertyville; Daniel W. Norbeck, Crystal Lake; Hing Leung Sham; Chen Zhao, both of Gurnee, all of Ill.[73] **Assignee:** Abbott Laboratories, Abbott Park, Ill.[21] **Appl. No.:** 423,387[22] **Filed:** Apr. 25, 1995**Related U.S. Application Data**

[63] Continuation of Ser. No. 158,587, Dec. 2, 1993, abandoned, which is a continuation-in-part of Ser. No. 998,114, Dec. 29, 1992, abandoned, which is a continuation-in-part of Ser. No. 777,626, Oct. 23, 1991, abandoned, which is a continuation-in-part of Ser. No. 746,020, Aug. 15, 1991, abandoned, which is a continuation-in-part of Ser. No. 616,170, Nov. 20, 1990, abandoned, which is a continuation-in-part of Ser. No. 518,730, May 9, 1990, Pat. No. 5,142,056, which is a continuation-in-part of Ser. No. 456,124, Dec. 22, 1989, abandoned, which is a continuation-in-part of Ser. No. 405,604, Sep. 8, 1989, abandoned, which is a continuation-in-part of Ser. No. 355,945, May 23, 1989, abandoned.

[51] **Int. Cl.** A61K 31/425; C07D 413/12; C07D 417/12[52] **U.S. Cl.** 514/365; 548/204; 548/194; 548/187; 548/235; 548/227; 548/228; 548/229; 514/374; 514/369; 514/370; 514/376; 514/377[58] **Field of Search** 514/365, 374, 514/369, 370, 376, 377; 548/204, 194, 187, 235, 227, 228, 229[56] **References Cited****U.S. PATENT DOCUMENTS**

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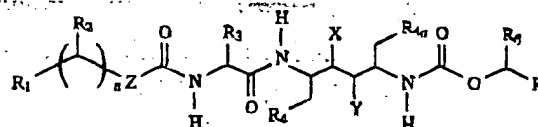
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Zeffren et al. The Study of Enzyme Mechanism, p. 87. 1974.
Shutske et al. J. Med. Chem. 1989. 32. 1805-1813.**Primary Examiner**—Jane Fan**Attorney, Agent, or Firm**—Steven R. Crowley[57] **ABSTRACT**

A retroviral protease inhibiting compound of the formula:



is disclosed.

19 Claims, No Drawings

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